10705562_LIST.txt

PLUS Search Results for S/N 10705562, Searched June 02, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

10705562_CLS.txt Most Frequently Occurring Classifications of Patents Returned From A Search of 10705562 on June 02, 2005

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Original Classifications
        175/45
 12
        33/304
324/346
33/302
324/339
340/853.8
   8
   4
   2
         702/9
Cross-Reference Classifications
        175/61
         33/304
324/346
175/45
33/312
33/313
   8
8
7
5
         175/40
    4332222
         166/66.5
         175/50
           33/324
         324/355
324/356
340/853.1
340/855.5
          367/82
Combined Classifications 19 175/45
         33/304
324/346
175/61
33/312
175/40
  16
  12
  10
          33/313
33/302
          166/66.5
         175/50
         1/5/50
33/324
73/152.54
324/323
324/339
324/355
324/356
340/853.1
          340/853.6
         340/853.8
340/855.5
340/856.4
367/82
702/10
          702/9
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10705562_CLSTITLES.txt
Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10705562 on June 02, 2005

19	175/45 Class 175/40 175/45		2 OR, 7 XR) : BORING OR PENETRATING THE EARTH WITH SIGNALING, INDICATING, TESTING OR MEASURING .Tool position direction or inclination measuring or indicating within the bore
16	33/304 Class 33/300 33/304	033	OR, 8 XR) : GEOMETRICAL INSTRUMENTS INDICATOR OF DIRECTION OF FORCE TRAVERSING NATURAL MEDIA .Borehole direction or inclination
12	324/346 Class 324/323 324/345 324/346	324	OR, 8 XR) : ELECTRICITY: MEASURING AND TESTING OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU .By magnetic meansWithin a borehole
10	175/61 Class 175/57 175/61	175	OR, 9 XR) : BORING OR PENETRATING THE EARTH PROCESSES .Boring curved or redirected bores
5	33/300		OR, 5 XR) : GEOMETRICAL INSTRUMENTS INDICATOR OF DIRECTION OF FORCE TRAVERSING NATURAL MEDIA
	33/304 33/312		.Borehole direction or inclinationElectrical telemetering to read-out
5	175/40 Class 175/40	175	OR, 4 XR) : BORING OR PENETRATING THE EARTH WITH SIGNALING, INDICATING, TESTING OR MEASURING
4	33/313 Class 33/300	033	OR, 4 XR) : GEOMETRICAL INSTRUMENTS INDICATOR OF DIRECTION OF FORCE TRAVERSING NATURAL MEDIA
	33/304 33/313		Borehole direction or inclinationInclination and direction indications
3	33/302 Class 33/300	(2 033	OR, 1 XR) : GEOMETRICAL INSTRUMENTS INDICATOR OF DIRECTION OF FORCE TRAVERSING NATURAL MEDIA
	33/301 33/302		.Process Borehole or tube interior study
3	166/66.5 Class 166/65.1	166 1	OR, 3 XR) : WELLS WITH ELECTRICAL MEANS .Magnetic
3	175/50 Class 175/40		OR, 3 XR) : BORING OR PENETRATING THE EARTH WITH SIGNALING, INDICATING, TESTING OR MEASURING Page 1

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10705562_CLSTITLES.txt
                        .Indicating, testing or measuring a condition
        175/50
                            of the formation
    33/324
                   (0 \text{ OR}, 2 \text{ XR})
2
                 033 : GEOMETRICAL INSTRUMENTS
        Class
                        INDICATOR OF DIRECTION OF FORCE TRAVERSING
         33/300
                        NATURAL MEDIA
.Gyroscopically controlled or stabilized
         33/318
         33/324
                         .. Gyroscopic compass
                  (1 OR, 1 XR)
2
    73/152.54
                 073 : MEASURING AND TESTING
        Class
                        BOREHOLE OR DRILLING (E.G., DRILL LOADING FACTOR, DRILLING RATE, RATE OF FLUID FLOW)
         73/152.01
        73/152.54
                        .Downhole test
                 (1 OR, 1 XR)
324 : ELECTRICITY: MEASURING AND TESTING
2 324/323
         Class
                        OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
         324/323
  324/339
                   (2 OR, 0 XR)
                 324 : ELECTRICITY: MEASURING AND TESTING
        Class
                        OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
         324/323
                        .with radiant energy or nonconductive-type
         324/332
                        transmitter
...With separate pickup
...Within a borehole
         324/334
         324/338
         324/339
                        ....By induction logging
2 324/355
                   (0 \text{ OR}, 2 \text{ XR})
                 324 : ELECTRICITY: MEASURING AND TESTING
OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
        Class
         324/323
                        .Using electrode arrays, circuits, structure,
         324/347
                              or supports
                         ..Coupled to artificial current source
         324/354
         324/355
                        ...within a borehole
                   (0 \text{ OR}, 2 \text{ XR})
2 324/356
                  324 : ELECTRICITY: MEASURING AND TESTING
        Class
                        OF GEOPHYSICAL SURFACE OR SUBSURFACE IN SITU
         324/323
         324/347
                        .Using electrode arrays, circuits, structure,
                               or supports
         324/354
                        ... Coupled to artificial current source
         324/355
324/356
                        ...Within a borehole
                        ....While drilling
2 340/853.1
                   (0 OR, 2 XR)
         Class 340 : COMMUNICATIONS: ELECTRICAL
                        WELLBORE TELEMETERING OR CONTROL (E.G.,
         340/853.1
                            SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)
         53.6 (1 OR, 1 XR)
Class 340: COMMUNICATIONS: ELECTRICAL
2 340/853.6
                        WELLBORE TELEMETERING OR CONTROL (E.G.,
         340/853.1
                              SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)
                         .Selective control of subsurface equipment
         340/853.3
                         .. Control of drill bit or apparatus (e.g.,
         340/853.6
                            steering, speed, etc.)
                 (2 OR, 0 XR)
340 : COMMUNICATIONS: ELECTRICAL
2 340/853.8
         Class
                        WELLBORE TELEMETERING OR CONTROL (E.G.,
         340/853.1
                             SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)
                                         Page 2
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10705562_CLSTITLES.txt
                         .with orientation sensing of subsurface
         340/853.8
                            telemetering equipment (other than drilling equipment)
                  (0 OR, 2 XR)
340 : COMMUNICATIONS: ELECTRICAL
  340/855.5
         Class
                        WELLBORE TELEMETERING OR CONTROL (E.G.
         340/853.1
                         SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)
.Pulse or digital signal transmission
         340/855.4
                         ..Digital signal processing in subsurface
         340/855.5
                            transmitter
                   (1 OR, 1 XR)
2 340/856.4
                  340 : COMMUNICATIONS: ELECTRICAL
                         WELLBORE TELEMETERING OR CONTROL (E.G.,
         340/853.1
                              SUBSURFACE TOOL GUIDANCE, DATA TRANSFER, ETC.)
                         .Including particular sensor
..Acoustic or vibratory (e.g., sonic, fluidic,
         340/856.3
         340/856.4
                            etc.)
2 367/82
                   (0 \text{ OR}, 2 \text{ XR})
         Class
                          COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
                           SYSTEMS AND DEVICES
                         WELLBORE TELEMETERING
         367/81
                         .Through drill string or casing
         367/82
2 702/10
                   (1 \text{ OR}, 1 \text{ XR})
                  702 : DATA PROCESSING: MEASURING, CALIBRATING, OR
         Class
                           TESTING
                         MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
         702/1
         702/2
                         .Earth science
         702/6
                         ..well logging or borehole study
         702/10
                         ...Dipmeter
                  (2 OR, 0 XR)
702 : DATA P
2 702/9
         Class
                          DATA PROCESSING: MEASURING, CALIBRATING, OR
                           TESTING
                         MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
         702/1
                         .Earth science
..Well logging or borehole study
         702/2
         702/6
         702/9
                         ...Drilling
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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	201	33/304.ccls.	USPAT	OR ·	ON	2005/06/02 15:53
L2	33	33/304.ccls. and wellbore	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/02 16:16
L3	2	33/304.ccls. and twin\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/02 16:18
L4	0	174/45.ccls. and twin\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/02 16:18
L5	7	(174/45.ccls. or 33/304.ccls. or 324/345.ccls. or 166/250.13.ccls. or 702/10.ccls. or 166/255.ccls.) and twin\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/02 16:22
L6	6	((borehole) or (bore same hole)) same twin\$4 and vector and magnetic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/02 16:29
L7	61	horizon\$4 same plane and vertical and magnetic same north and magnetic same azimuth and magnetic same east	US-PGPUB; USPAT	OR	ON	2005/06/02 16:31
L8	28	horizon\$4 same plane and vertical and magnetic same north and magnetic same azimuth and magnetic same east and borehole	US-PGPUB; USPAT	OR	ON	2005/06/02 16:31
L9		wellbore and drill\$3 and passive same rang\$3 same technique\$3 and borehole same survey\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/02 16:45

L10	36	("3725777" "5512830" "5657826" "3170137" "4302886" "4909336" "4987684" "5194859" "5220963" "5259466" "5351755" "5415238" "5419405" "5439064" "5842149" "5996711" "6003599" "6021377" "6065550" "6092610" "6145378" "6173773" "6192748" "6233524" "6267185" "6296066" "6315062" "6453239" "6470976" "200200052286" "20020005297" "20020116130" "20020133958" "5675488" "6321456" "6480119" "20020144417").pn.	US-PGPUB; USPAT	OR	ON	2005/06/02 16:53
S1	. 3	well same twin\$4 same borehole same survey\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/01 17:36
S2	7	wellbore and drill\$3 and passive same rang\$3 same technique\$3 and survey\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/01 17:38
S3	2	wellbore and drill\$3 and passive same rang\$3 same technique\$3 and borehole same survey\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/01 17:49
S4	40	("20020005286" "20020005297" "20020116130" "20020133958" "20020144417" "3170137" "3725777" "4302886" "4909336" "4987684" "5155916" "5194859" "5220963" "5259466" "5351755" "5415238" "5419405" "5439064" "5512830" "5657826" "5675488" "5842149" "5960370" "5996711" "6003599" "6021377" "6065550" "6092610" "6145378" "6173773" "6192748" "6233524" "6267185" "6296066" "6315062" "6321456" "6480119").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/01 17:41

S5	21	("4231252" "4472884" "4510696" "4559713" "4709486" "4906388" "4909336" "4987684" "5410303" "5435069" "5623407" "5657547" "5657826" "5739431" "5787997" "5821414" "5970787" "6109370" "6179067" "6347282" "RE33708").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/01 17:49
S6		("4231252" "4472884" "4510696" "4559713" "4709486" "4906388" "4909336" "4987684" "5410303" "5435069" "5623407" "5657547" "5657826" "5739431" "5787997" "5821414" "5970787" "6109370" "6179067" "6347282" "RE33708").PN.	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/01 17:49
S7	2	wellbore and drill\$3 and passive same rang\$3 same technique\$3 and borehole same survey\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/02 16:38
S8	0	wellbore and drill\$3 and passive same rang\$3 same technique\$3 and borehole same survey\$3	USOCR	OR	ON	2005/06/01 17:50
S9	0	wellbore and drill\$3 and passive and rang\$3 and technique\$3 and borehole and survey\$3	USOCR	OR	ON	2005/06/01 17:50
S10	38	wellbore and drill\$3 and passive and rang\$3 and technique\$3 and borehole and survey\$3	USPAT	OR	ON	2005/06/01 17:50
S11	0	33/304.ccls. and wellbore and drill\$3 and passive and rang\$3 and technique\$3 and borehole and survey\$3	USPAT	OR	ON	2005/06/01 17:51
S12	201	33/304.ccls.	USPAT	OR ·	ON	2005/06/01 17:51
S13	0	33/304.ccls. and twinning	USPAT	OR	ON	2005/06/01 17:51
S14	1	33/304.ccls. and twin\$3	USPAT	OR	ON	2005/06/01 17:51
S15	1	33/304.ccls. and twin\$3	USPAT	OR	ON	2005/06/02 15:52

	U	1	Document ID	Issue Date	Pages
1	х		US 20020144417 A1	20021010	9
2	х		US 20020133958 A1	20020926	35
3	х		US 20020116130 A1	20020822	26
4	х		US 20020005297 A1	20020117	58
5	×		US 6480119 B1	20021112	8
6	х		US 6470976 B2	20021029	44
7	x		US 6453239 B1	20020917	28
8	х		US 6321456 B1	20011127	7
9	х		US 6315062 B1	20011113	58
10	x		US 6296066 B1	20011002	29
11	X		US 6267185 B1	20010731	10
12	Х		US 6233524 B1	20010515	32

	Title	Current OR	Current XRef
1	Surveying of boreholes	33/304	
2	Continuous measurement-while-drilling surveying	33/304	
3	Lockable motor drive	702/9	
4	Underground boring machine employing solid-state inertial navigation control system and method	175/26	175/45
5	Surveying a subterranean borehole using accelerometers	340/853.8	175/40; 33/304; 340/853.1; 702/6
6	Excavation system and method employing adjustable down-hole steering and above-ground tracking	175/61	
7	Method and apparatus for borehole surveying	701/220	175/45; 33/304; 702/6; 73/152.54
8	Method of surveying a bore hole	33/313	33/304; 33/356
9	Horizontal directional drilling machine employing inertial navigation control system and method	175/45	166/255.2
10	Well system	175/92	138/125; 166/242.2; 175/320; 175/73
11	Apparatus and method for communication with downhole equipment using drill string rotation and gyroscopic sensors	175/57	175/45
12	Closed loop drilling system	702/9	

	U	1	Document ID	Issue Date	Pages
13	x		US 6192748 B1	20010227	7
14	x		US 6173773 B1	20010116	12
15	x		US 6145378 A	20001114	12
16	Х		US 6092610 A	20000725	34
17	X		US 6065550 A	20000523	26
18	X		US 6021377 A	20000201	32
19	х		US 6003599 A	19991221	13
20	х		US 5996711 A	19991207	15
21	X		US 5842149 A	19981124	32
22	X	x	US 5675488 A	19971007	15
23	Х		US 5657826 A	19970819	8

	Title	Current OR	Current XRef
13	Dynamic orienting reference system for directional drilling	73/152.01	166/117.6; 166/255.3; 175/45; 175/80; 73/152.43; 73/152.46
14	Orienting downhole tools	166/255.2	166/241.1; 166/297; 166/55.1; 166/66; 175/4.51
15	Aided inertial navigation system	73/490	166/254.1; 166/255.2; 175/45; 324/221; 73/152.46; 73/152.56; 73/503.3; 73/865.8
16	Actively controlled rotary steerable system and method for drilling wells	175/61	175/27; 175/73
17	Method and system for drilling and completing underbalanced multilateral wells utilizing a dual string technique in a live well	175/62	166/313; 166/50; 175/70
18	Drilling system utilizing downhole dysfunctions for determining corrective actions and simulating drilling conditions	702/9	
19	Azimuth-oriented perforating system and method	166/255.2	166/297; 166/55.1; 175/4.51
20	Method and apparatus for locating indexing systems in a cased well and conducting multilateral branch operations	175/61	166/255.2
21	Closed loop drilling system	702/9	
22	Location determination using vector measurements	702/10	324/338; 340/853.1; 340/853.2; 73/152.35
23	Guidance system for drilling boreholes	175/45	175/62

	U	1	Document ID	Issue Date	Pages
24	х		US 5512830 A	19960430	10
25	х		US 5439064 A	19950808	30
26	x		US 5419405 A	19950530	35
27	Х		US 5415238 A	19950516	9
28	×		US 5351755 A	19941004	4
29	х	,	US 5259466 A	19931109	6
30	x		US 5220963 A	19930622	36
31	X		US 5194859 A	19930316	11
32	×		US 4987684 A	19910129	31
33	х		US 4909336 A	19900320	14
34	х		US 4302886 A	19811201	21
35	x		US 3725777 A	19730403	5
36	x		US 3170137 A	19650216	10

	Title	Current OR	Current XRef
24	Measurement of vector components of static field perturbations for borehole location	324/346	
25	System for controlled drilling of boreholes along planned profile	175/24	175/45
26	System for controlled drilling of boreholes along planned profile	175/27	175/45; 175/61
27	Borehole sidetrack locator	166/381	166/117.5
28	Method and apparatus for establish the orientation of tools in a cased borehole	166/255.2	166/66; 166/66.5; 324/346
29	Method and apparatus for orienting a perforating string	175/4.51	166/297; 166/55.1
30	System for controlled drilling of boreholes along planned profile	175/24	175/27; 175/45; 175/61
31	Apparatus and method for positioning a tool in a deviated section of a borehole	340/853.4	175/45; 33/304; 33/313; 340/853.8; 340/854.1
32	Wellbore inertial directional surveying system	33/304	33/313
33	Drill steering in high magnetic interference areas	175/45	175/61; 33/304
34	Gyroscopic directional surveying instrument	33/312	62/259.2; 73/431
35	METHOD FOR DETERMINING DISTANCE AND DIRECTION TO A CASED BOREHOLE USING MEASUREMENTS MADE IN AN ADJACENT BOREHOLE	324/346	
36	Method of improving electrical signal transmission in wells [TEXT AVAILABLE IN USOCR DATABASE]	340/855.1	174/47; 336/DIG.2; 439/194